APPENDIX C

CLARIFICATION OF DATA ITEMS

Suggested Abbreviations For Descriptive Items

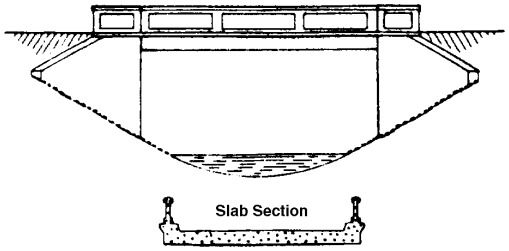
ALT	–	Alternate	LN	–	Lane(s)
AV	–	Avenue	MI	–	Mile(s)
BL	–	Boulevard	N	–	North
BR	–	Bridge	OVR	–	Over
BYP	–	Bypass	PK	–	Parkway
CR	–	Circle	PL	–	Place
CL	–	Corporate Limit	RR	–	Railroad
CO	–	County	RRX	–	Railroad Crossing
COV	–	Covered	RP	–	Ramp
CT	–	Court	RV	–	River
CTY	–	City	RD	–	Road
DR	–	Drive	RDD	–	Road District
E	–	East	S	–	South
FR	–	From	ST	–	Street
FRNT	–	Frontage	TR	–	Terrace
I	–	Interstate	TWP	–	Township
ILL	–	Illinois	UDR	–	Under
JCT	–	Junction	W	–	West

The abbreviations for the intermediate compass points may be formed by combining the abbreviations for the cardinal points.
Example: Northeast = NE; South Southwest = SSW.

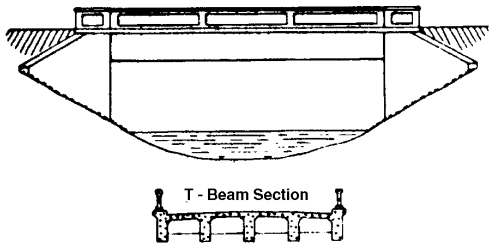
The direction abbreviations can be prefixed to CL to specify a particular corporate limit.
Example: East Corporate Limits = ECL.

Abbreviations for words not on this list may be used, provided their meanings are obvious and not easily confused with others.

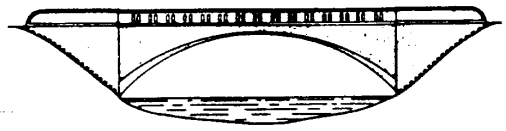
Concrete Bridge Types



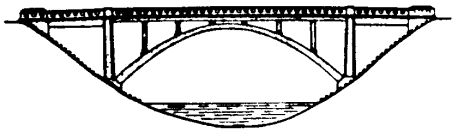
Simple Span
Reinforced Concrete Slab
(101)



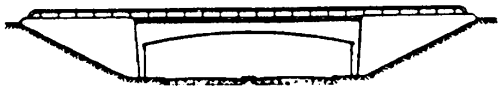
Simple Span
Reinforced Concrete Deck Girder
(104)



Filled Spandrel Concrete Arch
(111)



Open Spandrel Concrete Arch
(125)

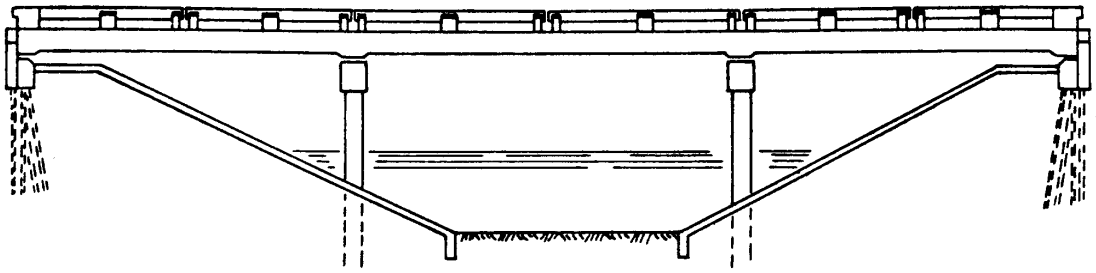


Rigid Frame Concrete (107)
3-Sided Structure Precast Concrete Not Prestressed (A07)

Note: Coding for items 43 & 44 indicated in parentheses on Figures 2.01-2.12

Figure 2.01

Concrete Bridge Types (Continued)

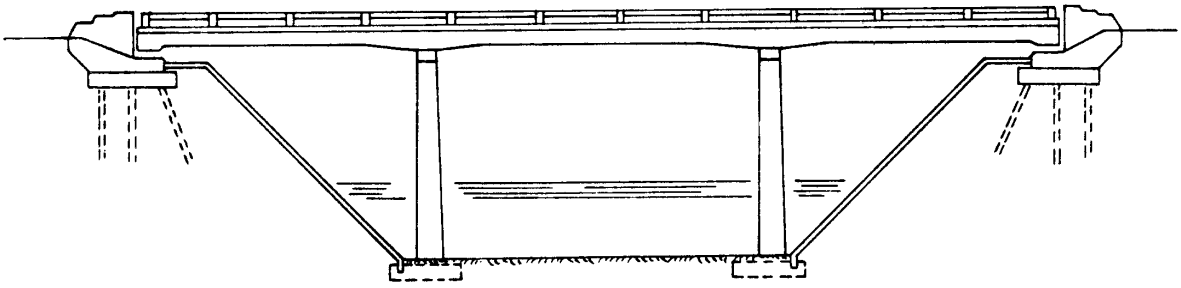


Elevation

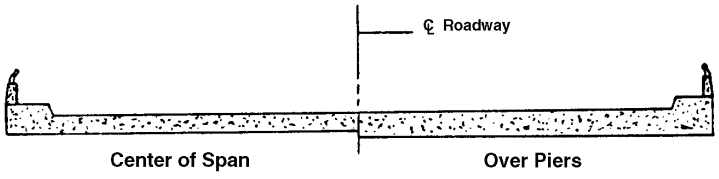
Cross Section

Continuous R.C. Slab

(201)



Elevation



Cross Section

Continuous R.C. Slab

(Haunched)

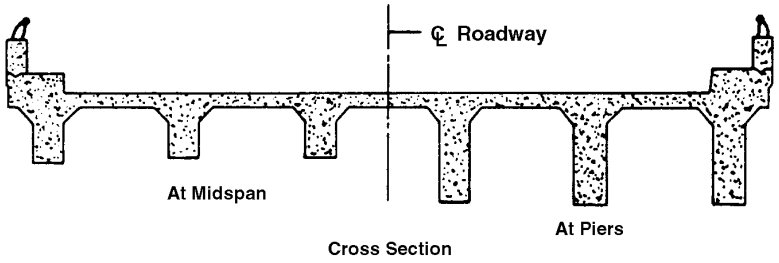
(201)

Figure 2.02

Concrete Bridge Types (Continued)

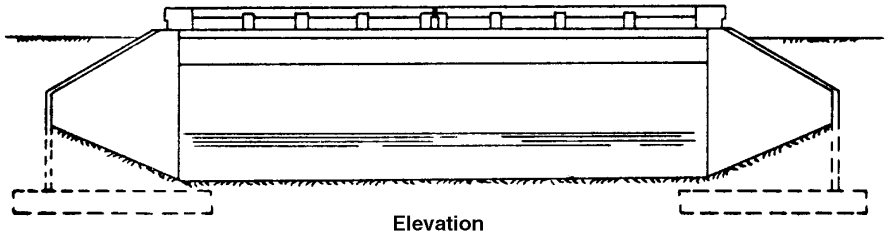
Elevation

(3 Span Continuous)

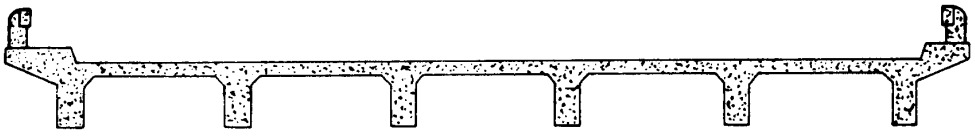


Cross Section

Continuous R.C. Deck Girder
(Haunched)
(204)



Elevation

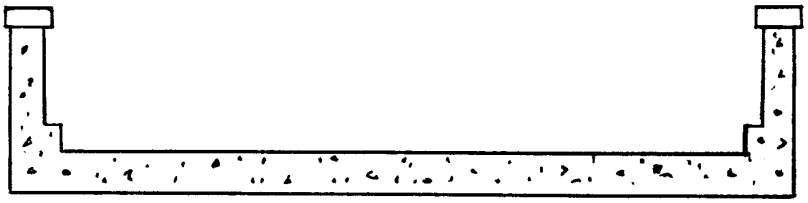


Cross Section

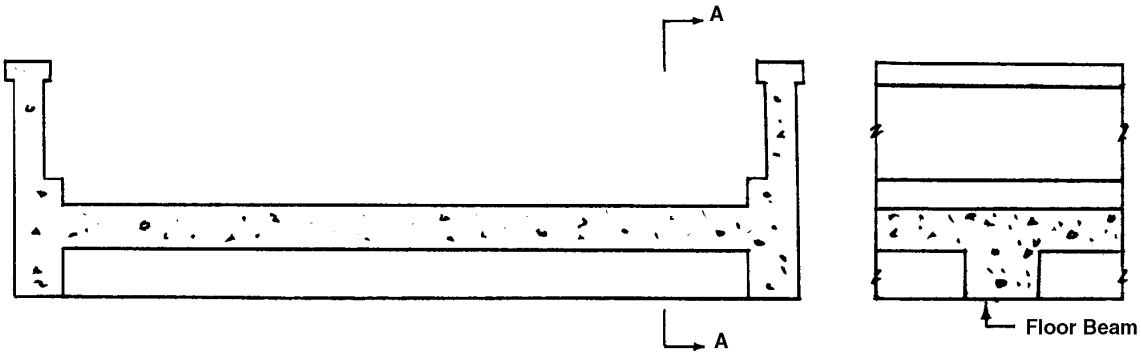
Simple Span R.C. Deck Girder
(104)

Figure 2.03

Concrete Bridge Types (Continued)

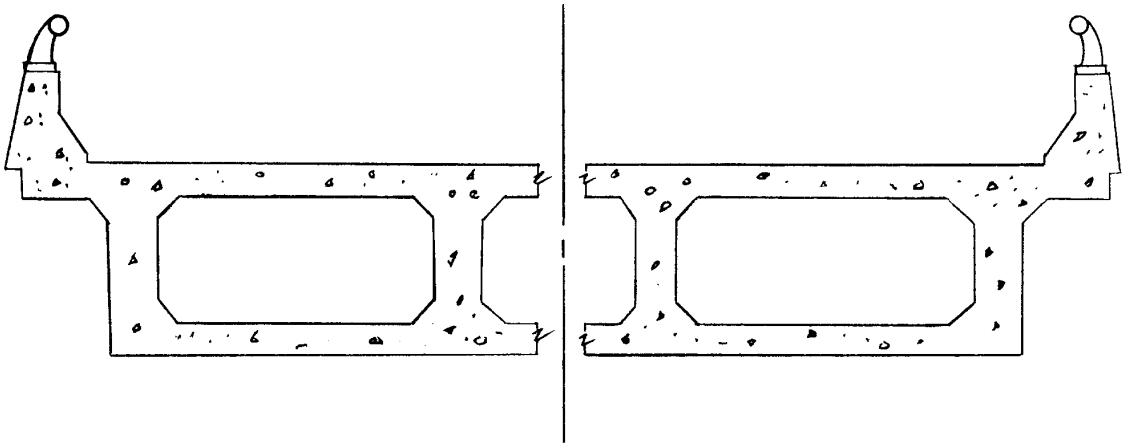


Concrete Thru Girder Without Floor Beam System
Simple Span (124)
Continuous Span (224)



Concrete Thru Girder & Floor Beam System
Simple Span (103)
Continuous Span (203)

Sec. A-A

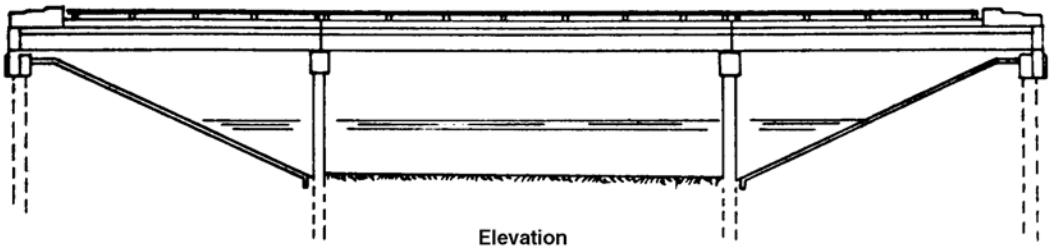


Cast-In-Place R.C. Box Girder

Simple Span (105)
Continuous Span (205)

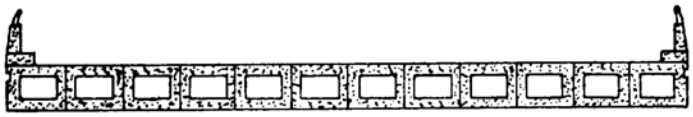
Figure 2.04

Concrete Bridge Types (Continued)



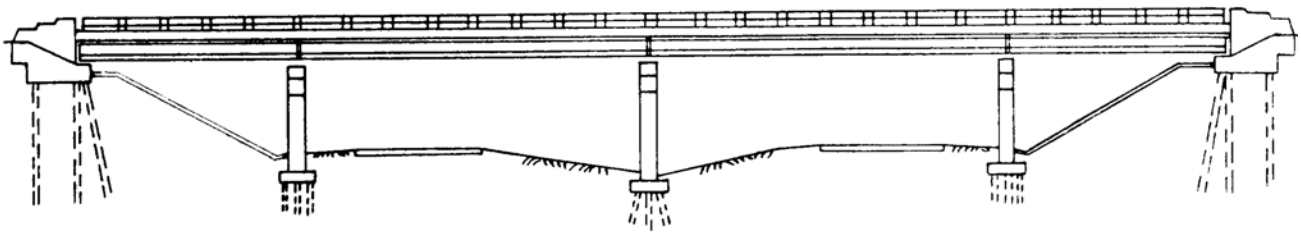
Elevation

Note: These are simple spans

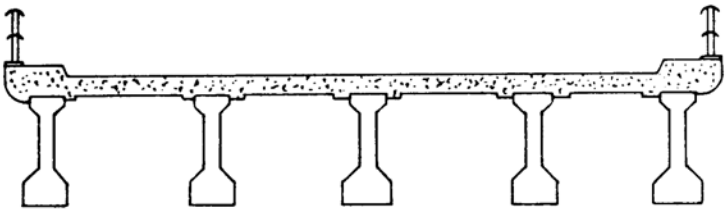


Cross Section

Precast Prestressed Concrete Deck Beams
(505)



Elevation

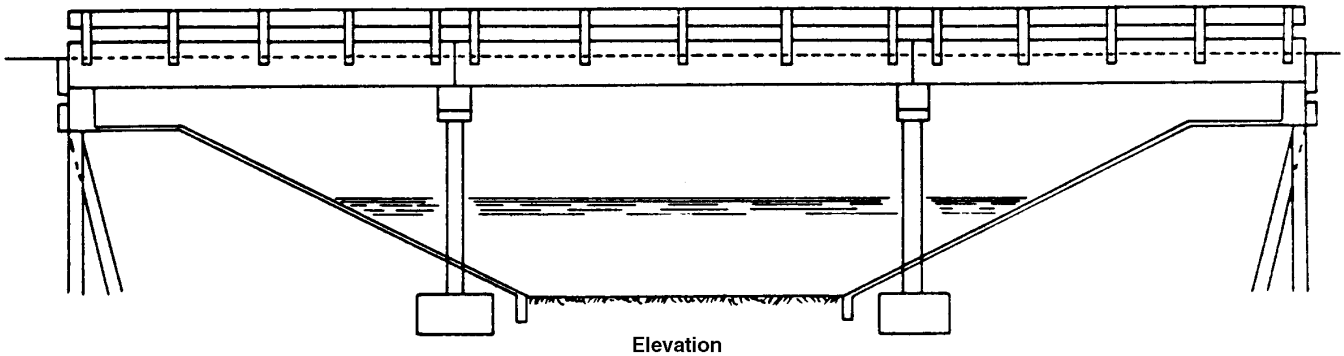


Cross Section

Precast Prestressed Concrete I-Beams
Simple Span (502)
Continuous Spans (602)

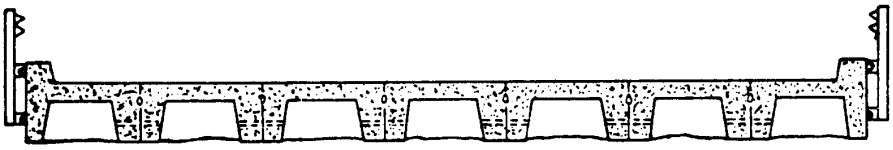
Figure 2.05

Concrete Bridge Types (Continued)



Elevation

Note: These are simple spans

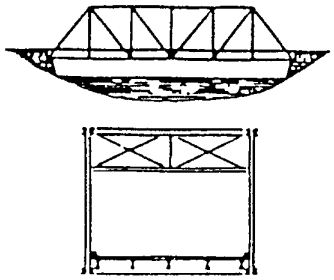


Cross Section

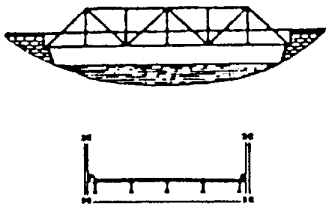
Precast (Non-Prestressed) Concrete Bridge Slab
(A29)

Figure 2.06

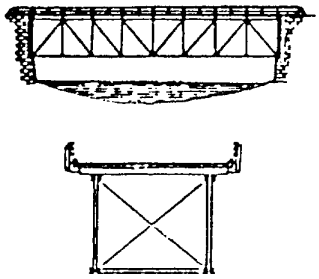
Steel Bridge Types



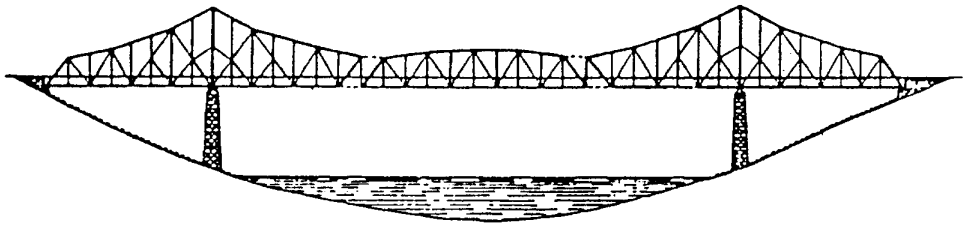
Pratt Through Truss
Eyebar - (350)
Riveted - (351)



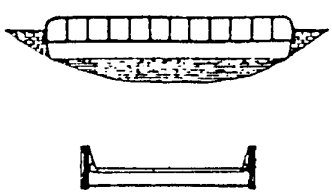
Warren Pony Truss
(335)



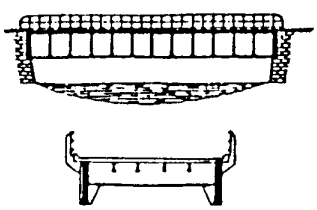
Pratt Deck Truss
Eyebar - (360)
Riveted - (361)



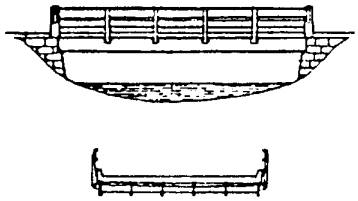
Through Cantilever Truss
(459)



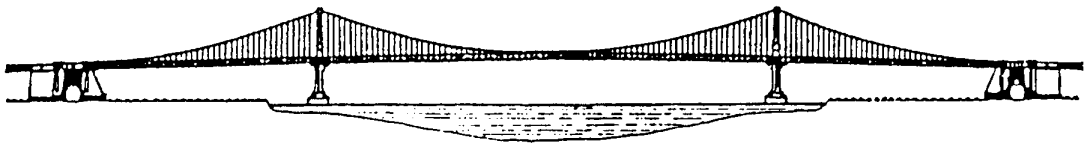
Simple Span
Through Girder
(324)



Simple Span
Deck Girder
(W/Floor Beam System)
(303)



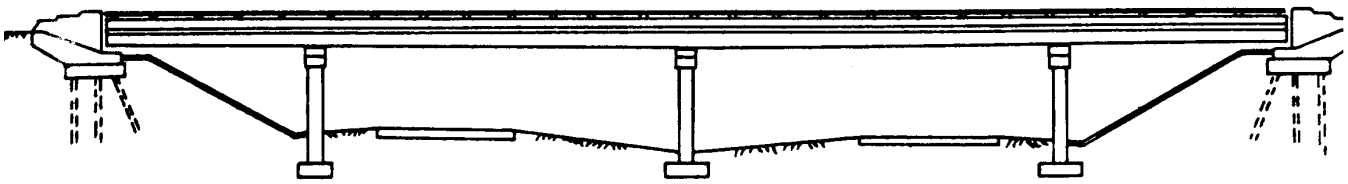
Simple Span
Multi-Beam
(No Floor Beam System)
(302)



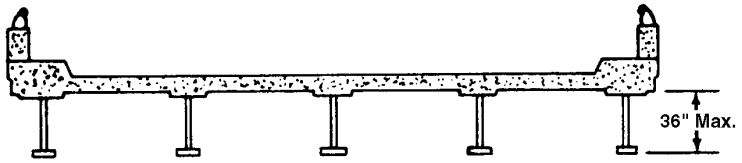
Suspension
(313)

Figure 2.07

Steel Bridge Types (Continued)

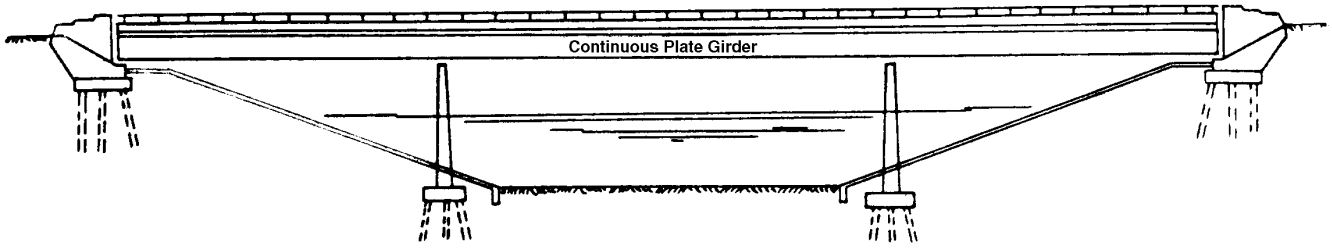


Elevation

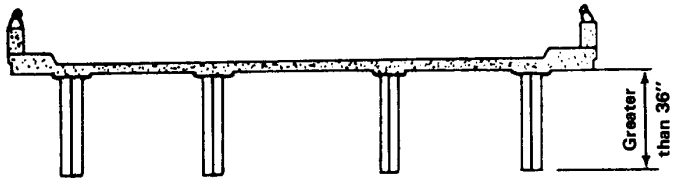


Cross Section

Continuous Steel Stringer
(402)



Elevation

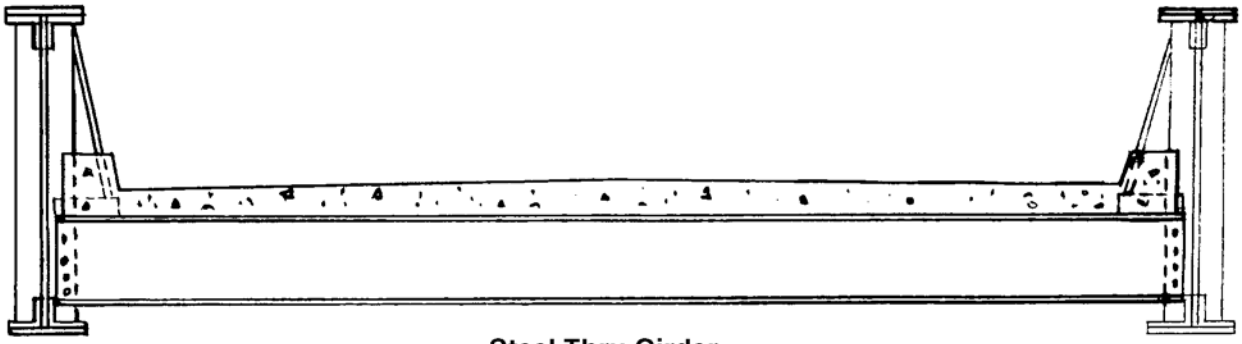


Cross Section

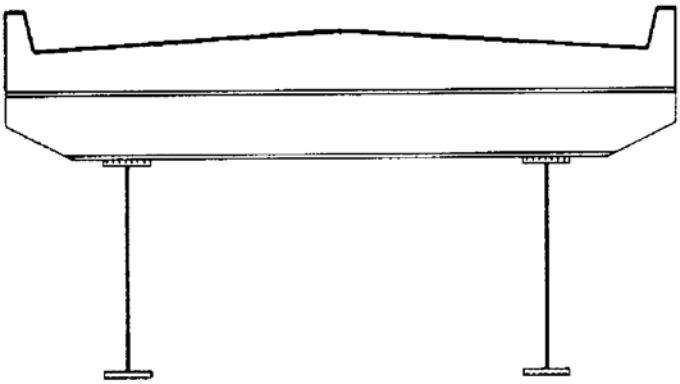
Continuous Steel Plate Girder-(4 or more girders)
(402)

Figure 2.08

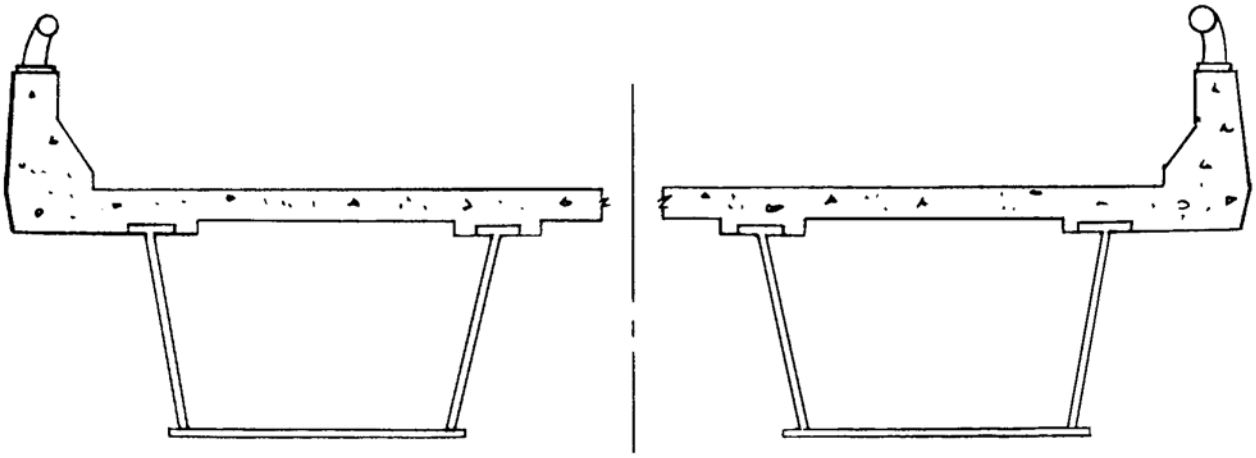
Steel Bridge Types (Continued)



Steel Thru Girder
Simple Span (324)
Continuous Span (424)



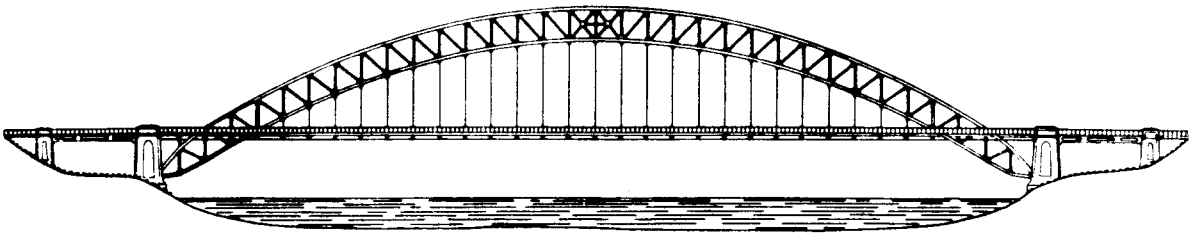
Steel Deck Girder
Simple Span (303)
Continuous Span (403)



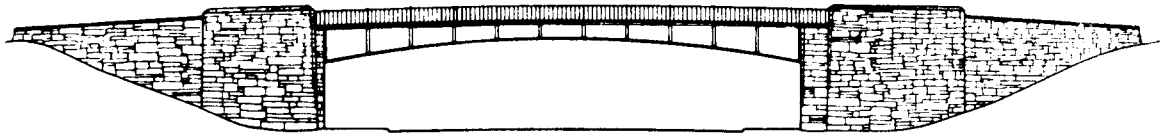
Steel Box Girder
Simple Span (305)
Continuous Span (405)

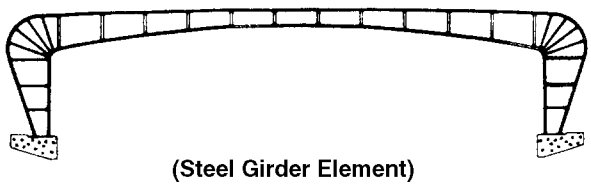
Figure 2.09

Steel Bridge Types (Continued)



Through -Arch Truss
(312)



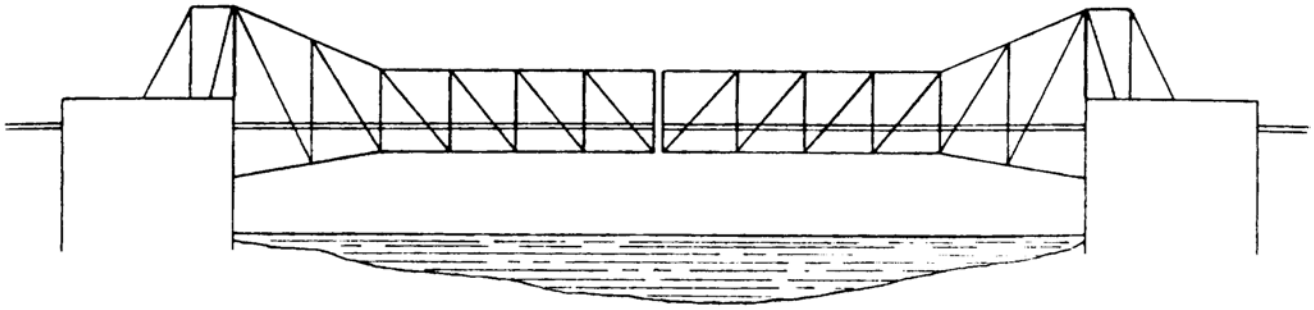


(Steel Girder Element)

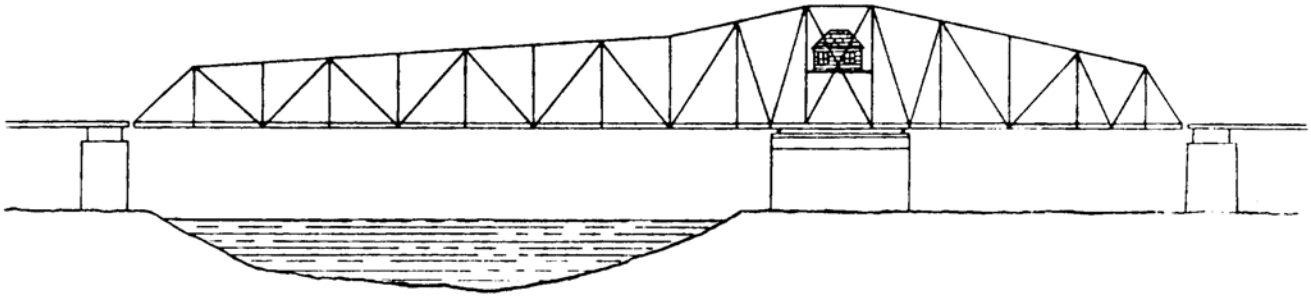
Rigid Frame-Steel
(307)

Figure 2.10

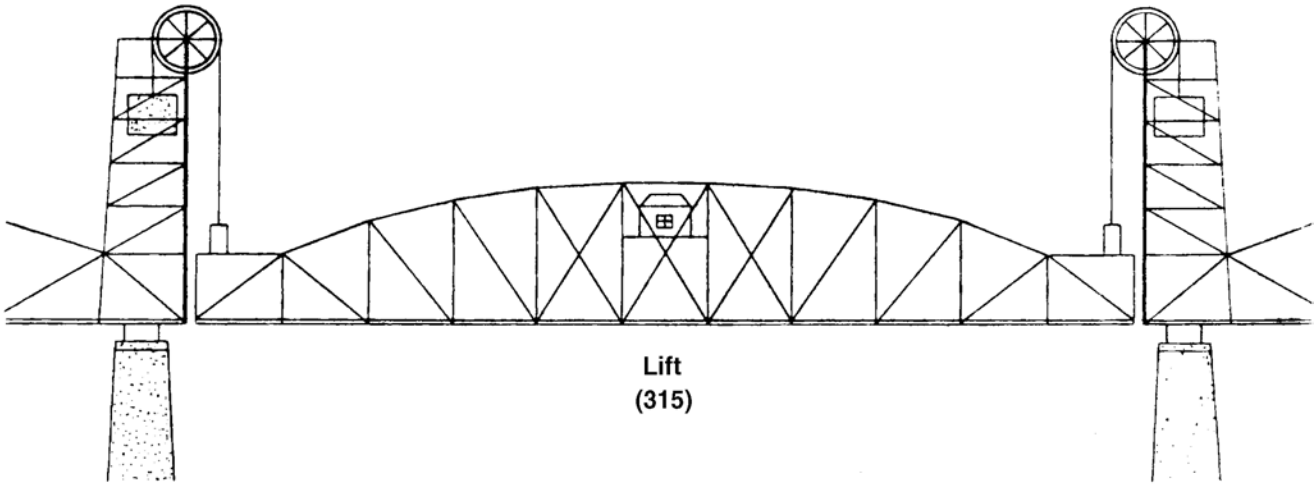
Movable Bridge Types



Bascule
(316)



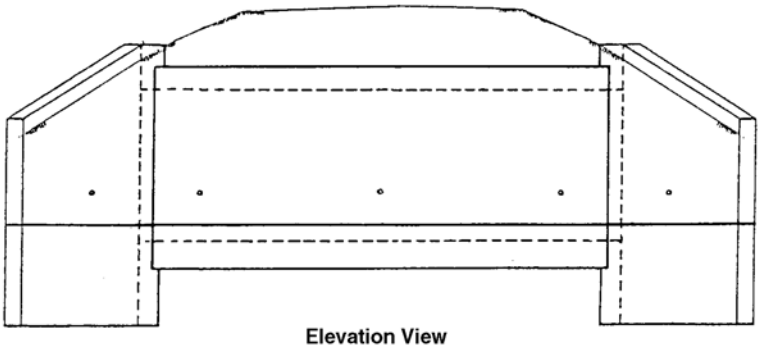
Rotary-Swing
(317)



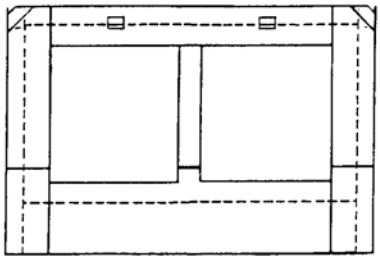
Lift
(315)

Figure 2.11

Culvert Types

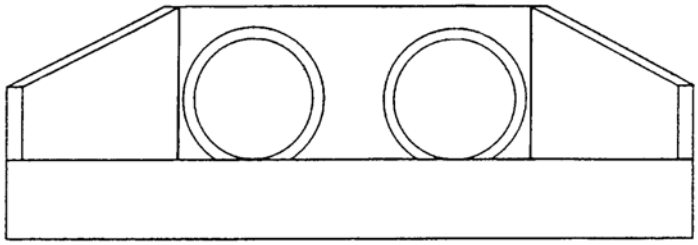


Elevation View

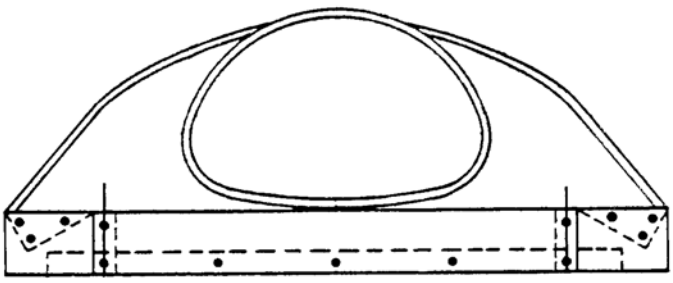


End View

Cast-In-Place Concrete Multiple Box Culvert (219)
Precast Concrete Box Culverts (A19)



Precast Concrete Pipe Culverts (A19)
Metal Pipe Culverts
Steel (319)
Aluminum (919)

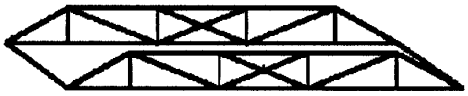


Corrugated Metal Plate Pipe Arch
Steel (319)
Aluminum (919)

Figure 2.12

TRUSS TYPES

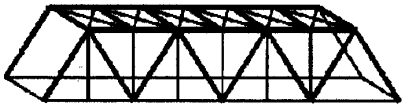
THERE ARE 3 TRUSS CATEGORIES:



PONY TRUSS

STRUCTURE TYPE CODING 30 THRU 44

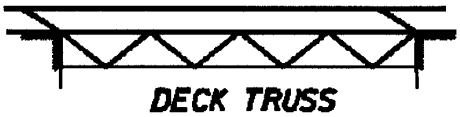
DECK ON FLOOR BEAMS SPANNING BETWEEN LOWER PANEL POINTS.
NO TOP LATERAL MEMBERS.
SHORT SPANS (<80')



THROUGH TRUSS

STRUCTURE TYPE CODING 45 THRU 59

DECK ON FLOOR BEAMS BETWEEN LOWER PANEL POINTS.
TOP CHORDS BRACED BY LATERAL MEMBERS.
LONG SPANS (USUALLY>80')



DECK TRUSS

STRUCTURE TYPE CODING 60 THRU 69

DECK ON FLOOR BEAMS SPANNING BETWEEN UPPER PANEL POINTS. TRUSS IS MOSTLY BELOW THE DECK SURFACE.

WARREN

(335)

TRIANGULAR IN OUTLINE THE DIAGONALS CARRY BOTH COMPRESSIVE AND TENSILE FORCES. A "TRUE" WARREN TRUSS HAS EQUILATERAL TRIANGLES WITH NO VERTICALS.

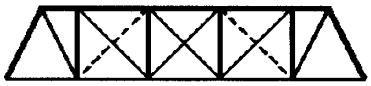
LENGTH: 50 - 400 FEET
15 - 120 METERS

PRATT

(330, 331, 350, 351)

DIAGONALS IN TENSION, VERTICALS IN COMPRESSION, (EXCEPT FOR HIP VERTICALS ADJACENT TO INCLINED END POSTS).

LENGTH: 25 - 150 FEET
8 - 45 METERS



PRATT HALF-HIP

(332)

A PRATT WITH INCLINED END POSTS THAT DO NOT HORIZONTALLY EXTEND THE LENGTH OF A FULL PANEL. NO HIP VERTICAL.

LENGTH: 30 - 150 FEET
9 - 45 METERS

TRUSS LEG BEDSTEAD

(333, 334)

A PRATT WITH VERTICAL END POSTS.

LENGTH: 30 - 100 FEET
9 - 30 METERS

MODIFIED WARREN

WITH VERTICALS

(336)

DIAGONALS CARRY BOTH COMPRESSIVE AND TENSILE FORCES. VERTICALS SERVE AS BRACING FOR TRIANGULAR WEB SYSTEM.

LENGTH: 50 - 400 FEET
15 - 120 METERS

Figure 2.13

TRUSS TYPES

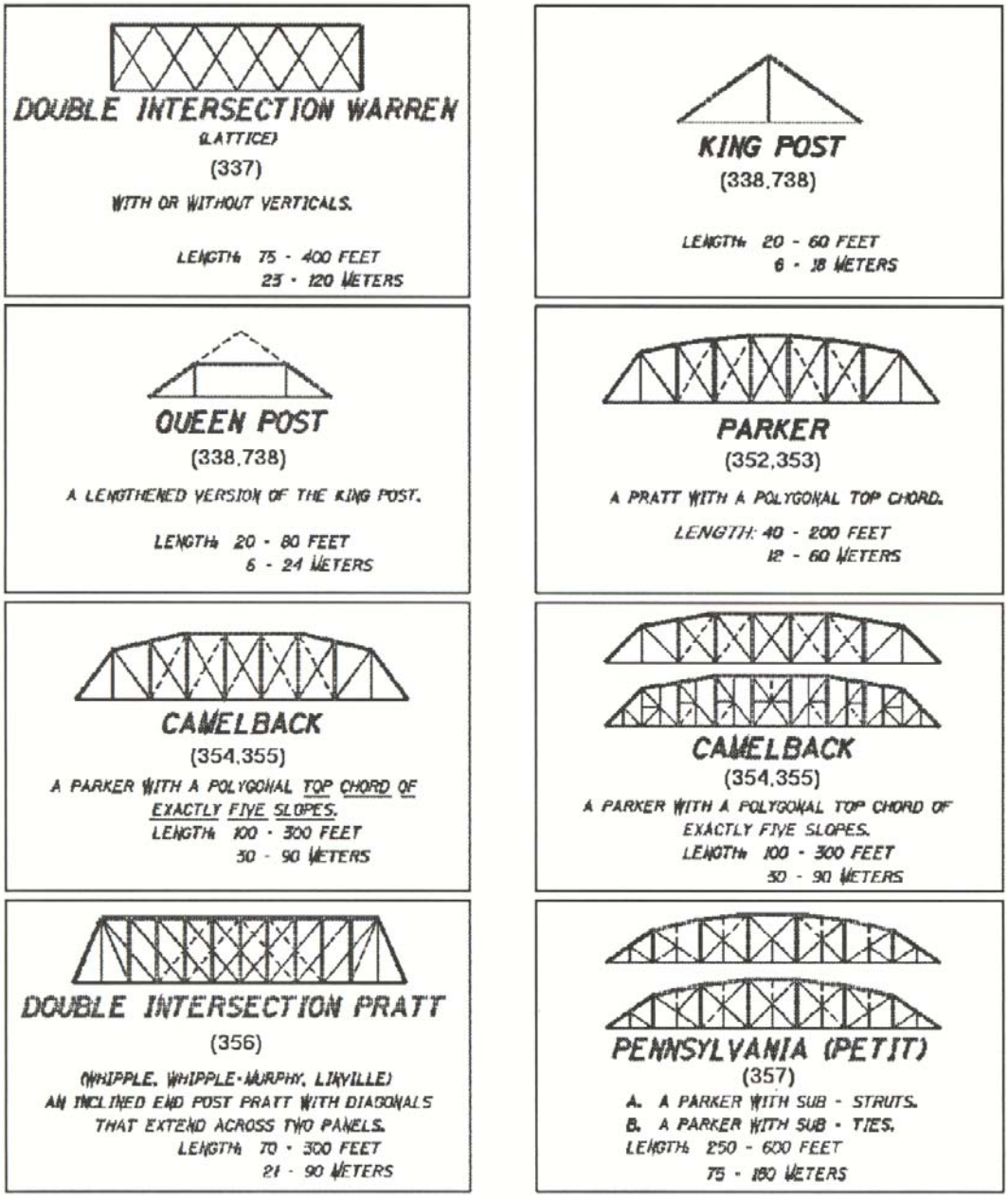


Figure 2.14

TRUSS TYPES

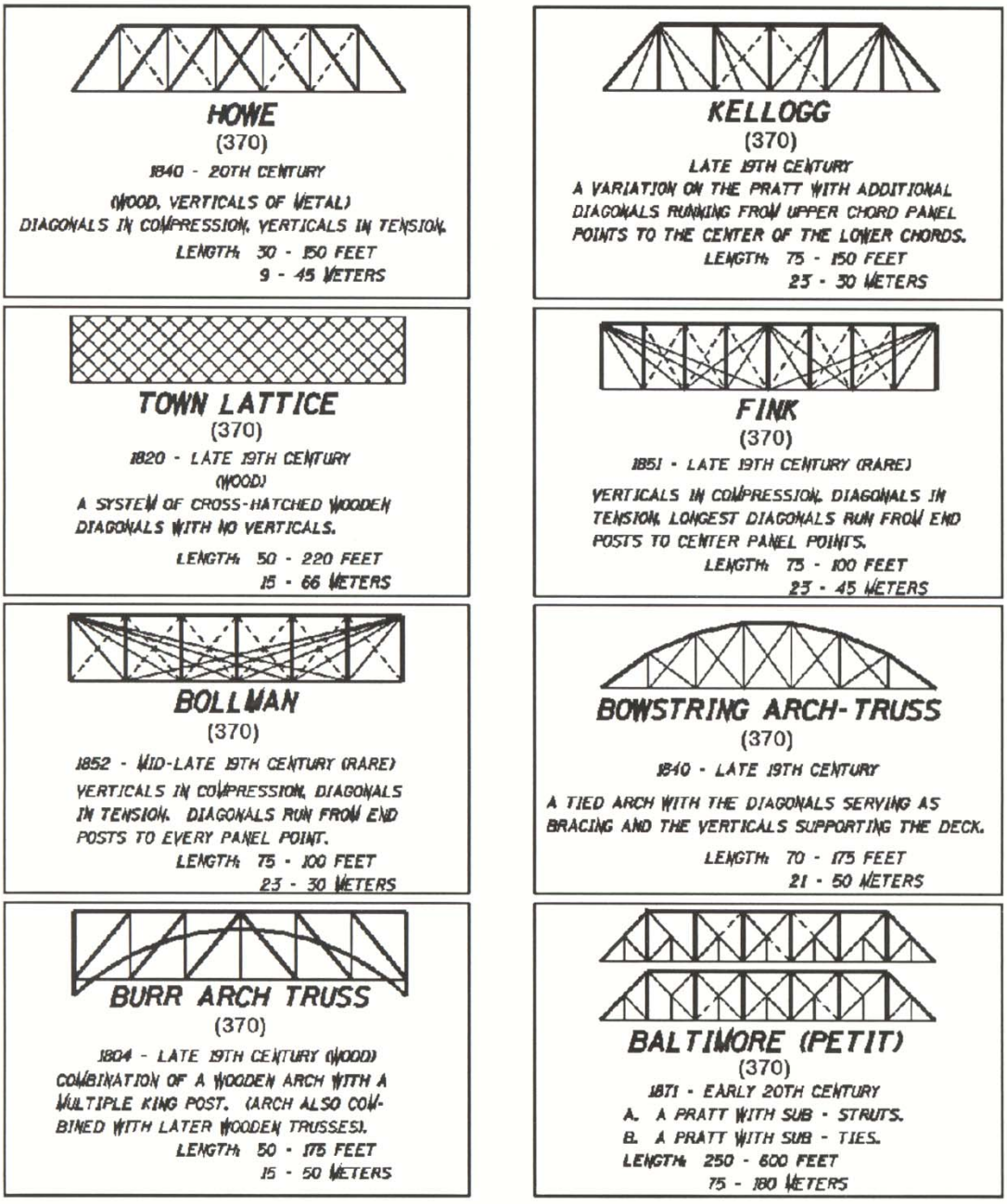
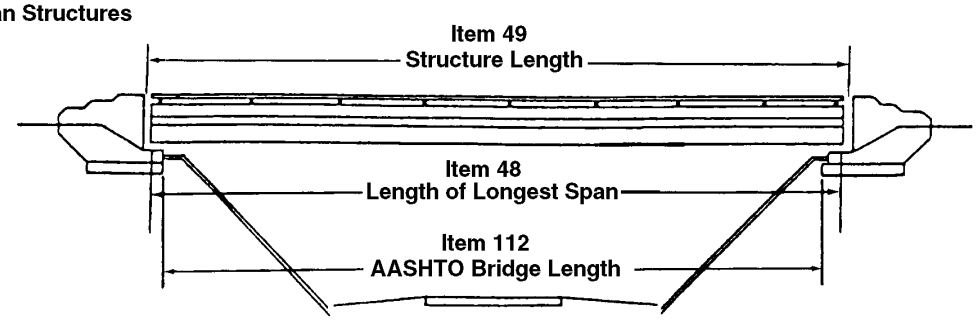


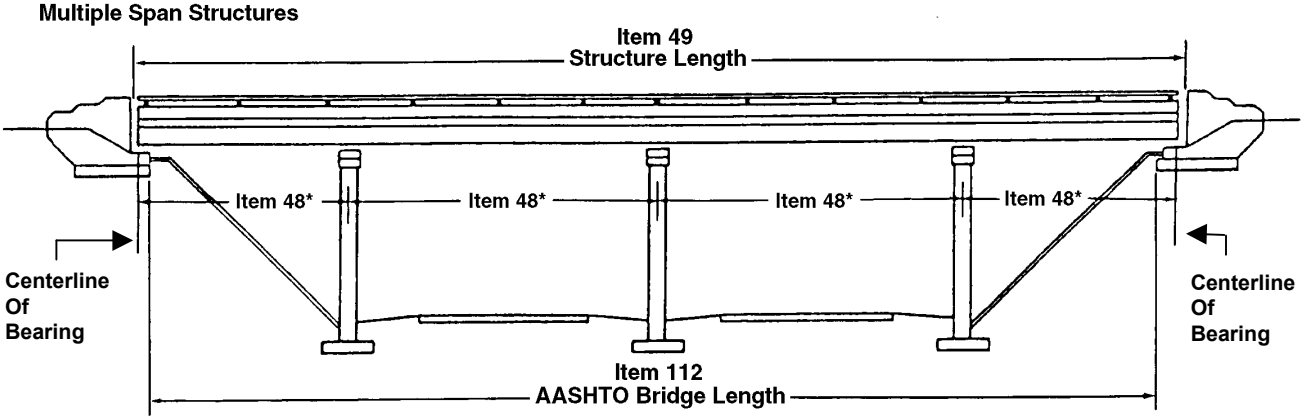
Figure 2.15

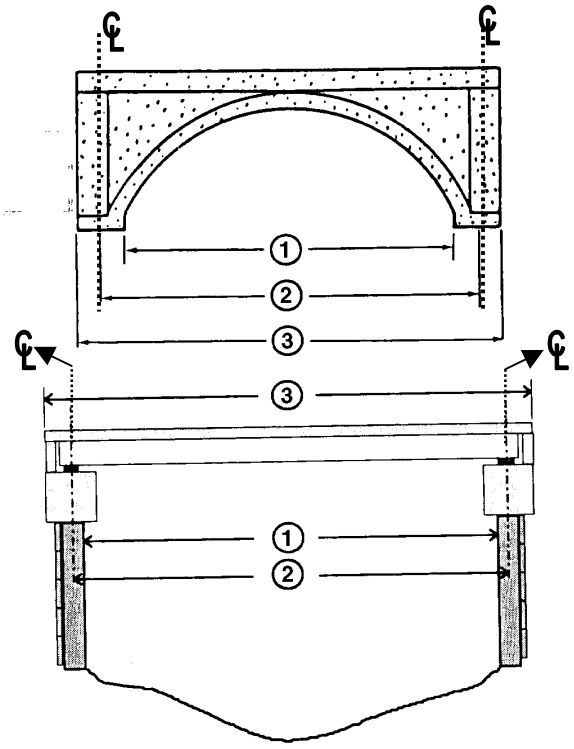
Length Measurements

Single Span Structures

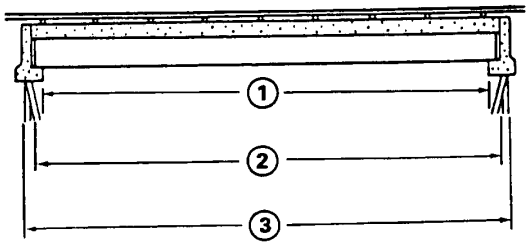


Multiple Span Structures





*- Record Length of Longest Span Item 48



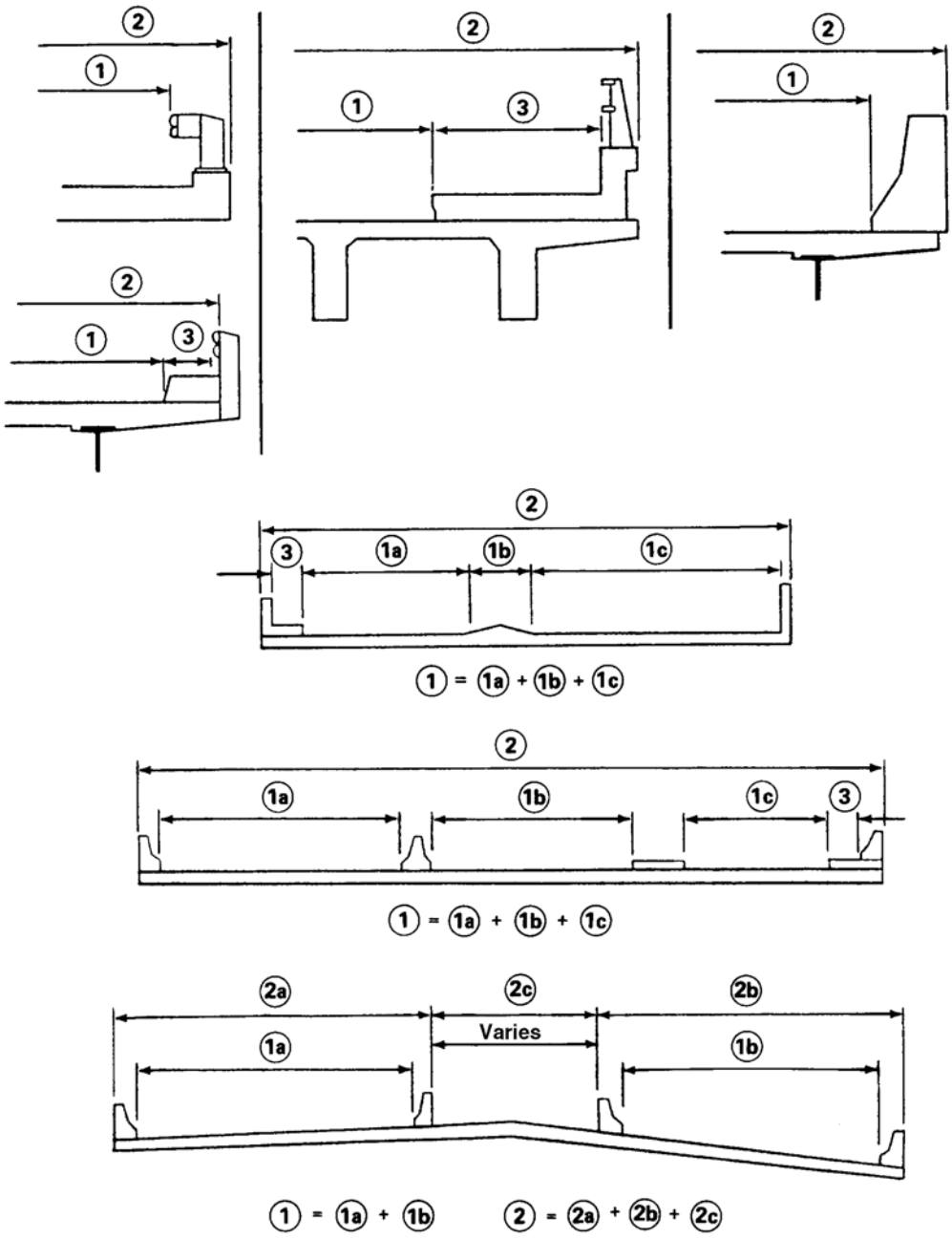
① – Item 112 (AASHTO Bridge Length)

② – Item 48 (Length of Longest Span)

③ – Item 49 (Structure Length)

Figure 3.1

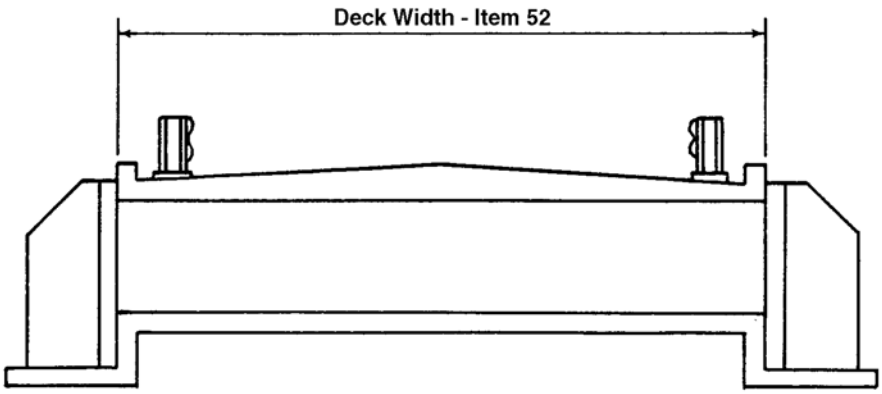
Width Measurements



1. Item 51 - Bridge Roadway Width, Curb to Curb
2. Item 52 - Deck Width, Out to Out
3. Item 50 - Curb or Sidwalk Width

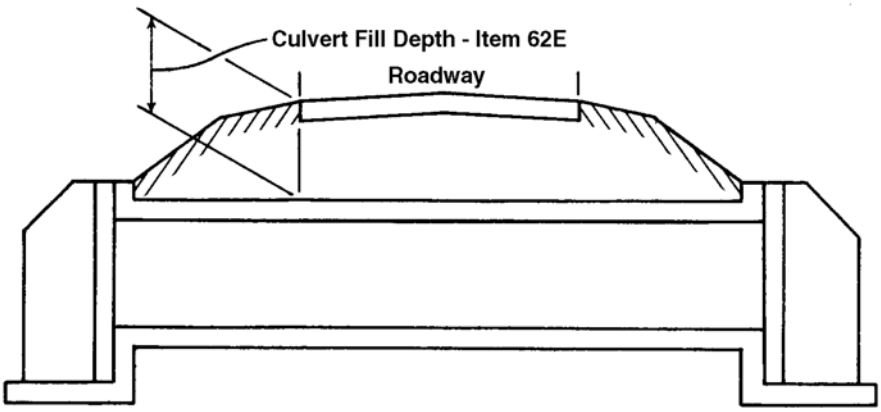
Figure 4.1

Culvert Examples



Culvert Not Under Fill

Note: Fill Depth (Item 62E) Code 00.0

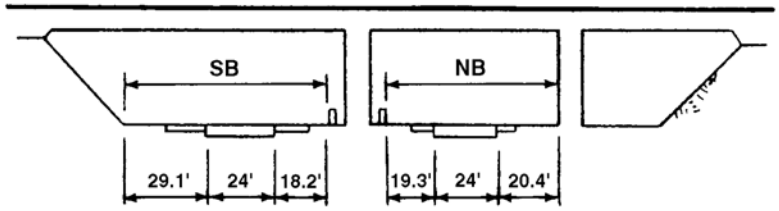


Culvert Under Fill

Note: Deck Width (Item 52) Code 000.0

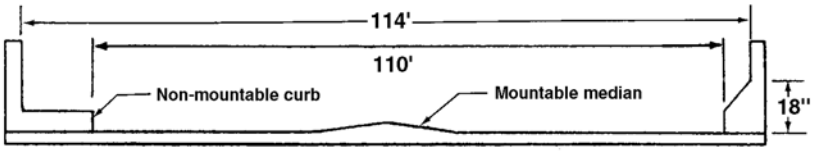
Figure 4.2

Horizontal Clearance

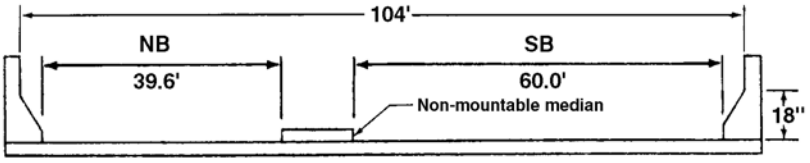


SB = 71.3' NB = 63.7'

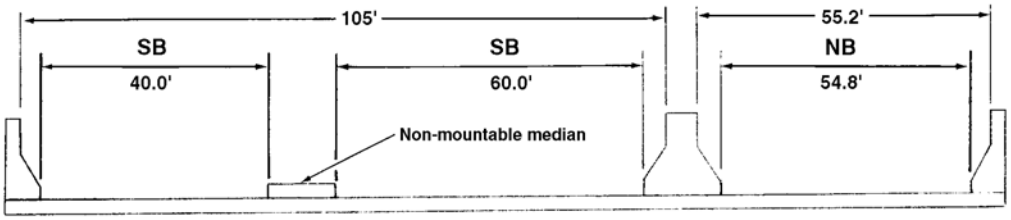
Two Roadways Under
Item 47A = 0713
Item 47B = 0637
Item 47 = 0713 (Maximum Single Roadway Width)



One Roadway On
Item 47A = 1140
Item 47B = Leave Blank
Item 47 = 1100 (Maximum Single Roadway Width)



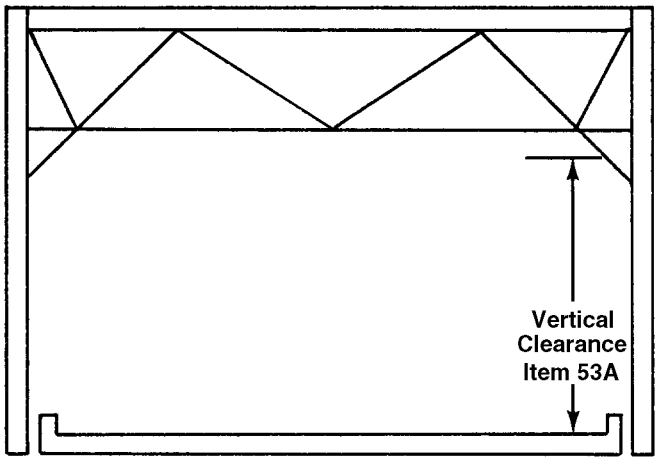
Two Roadways On
Item 47A = 1040
Item 47B = Leave Blank
Item 47 = 0600 (Maximum Single Roadway Width)



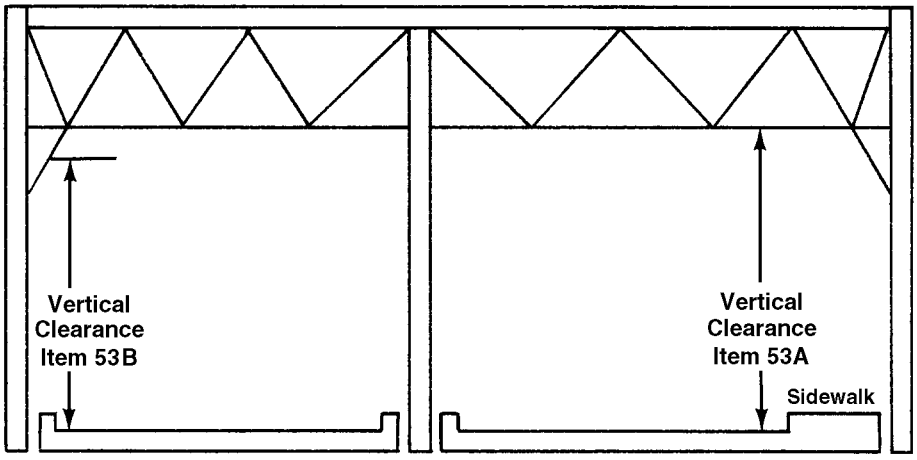
More Than Two Roadways On
Item 47A = 1050
Item 47B = 0552
Item 47 = 0600 (Maximum Single Roadway Width)

Figure 4.3

Minimum Vertical Clearance



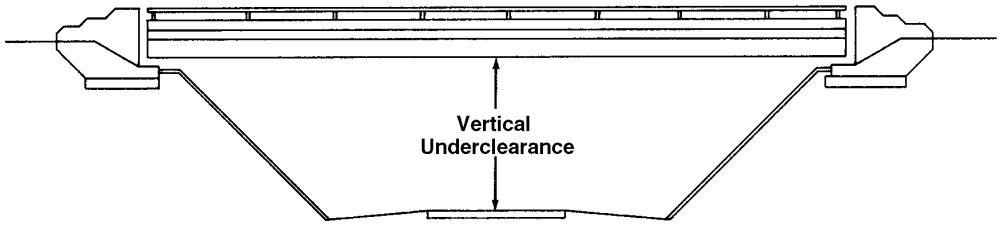
One Opening



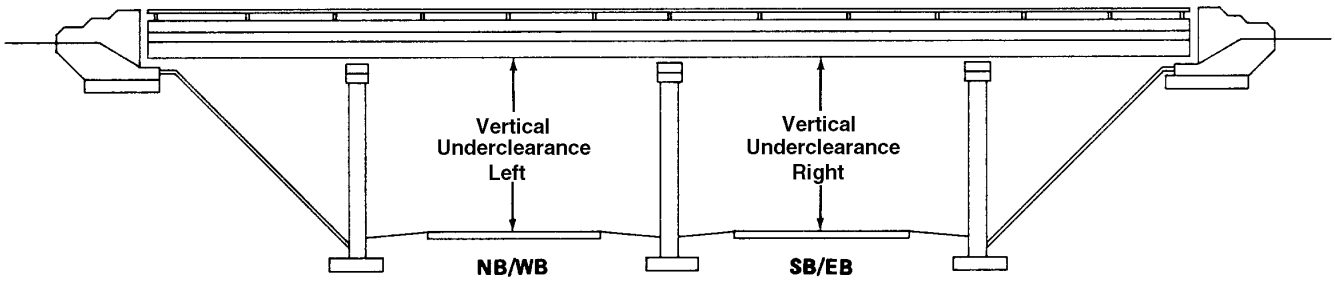
Two Openings

Figure 5.1

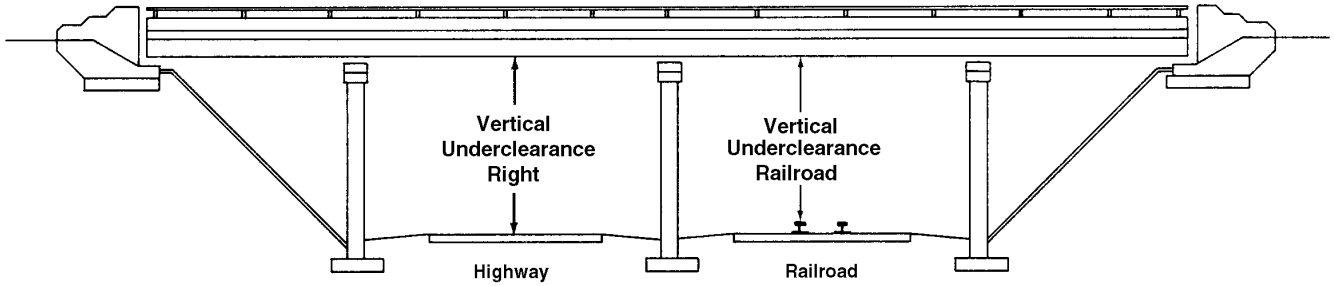
Minimum Vertical Underclearance



Item 54B1



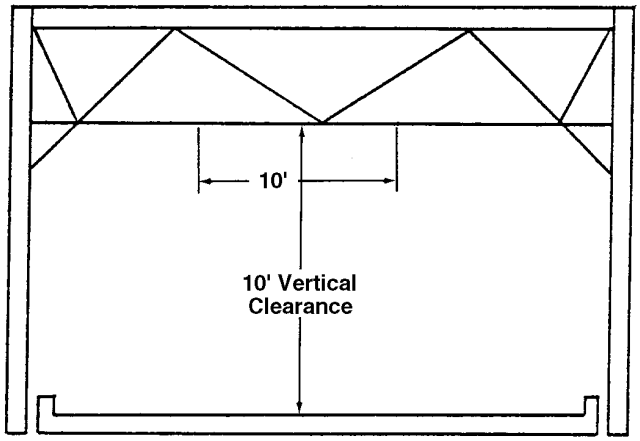
Item 54B2 Item 54B1



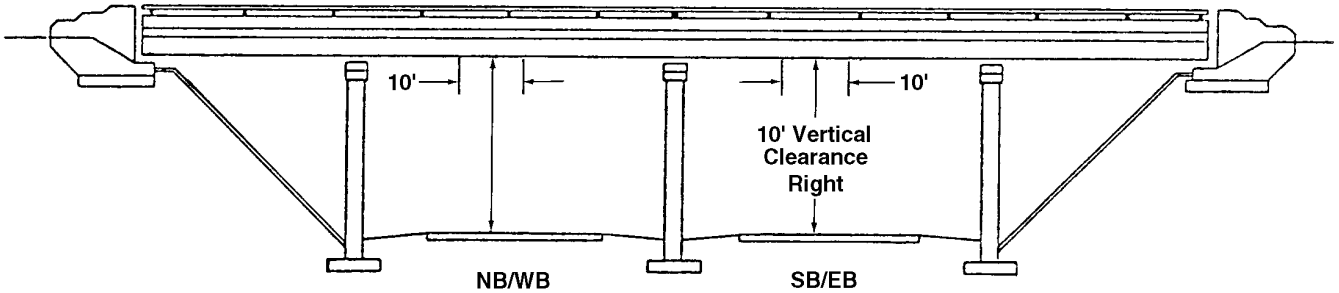
Item 54B1 Item 54B3

Figure 6.1

10 Foot Vertical Clearance

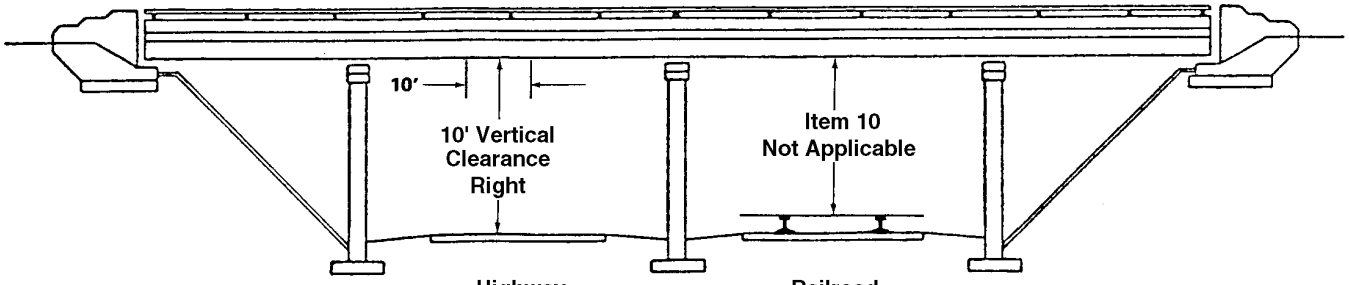


One Opening



NB/WB
Item 10B

SB/EB
Item 10A



Highway
Item 10A

Railroad

Figure 7.1

Sidewalk Width On Structure

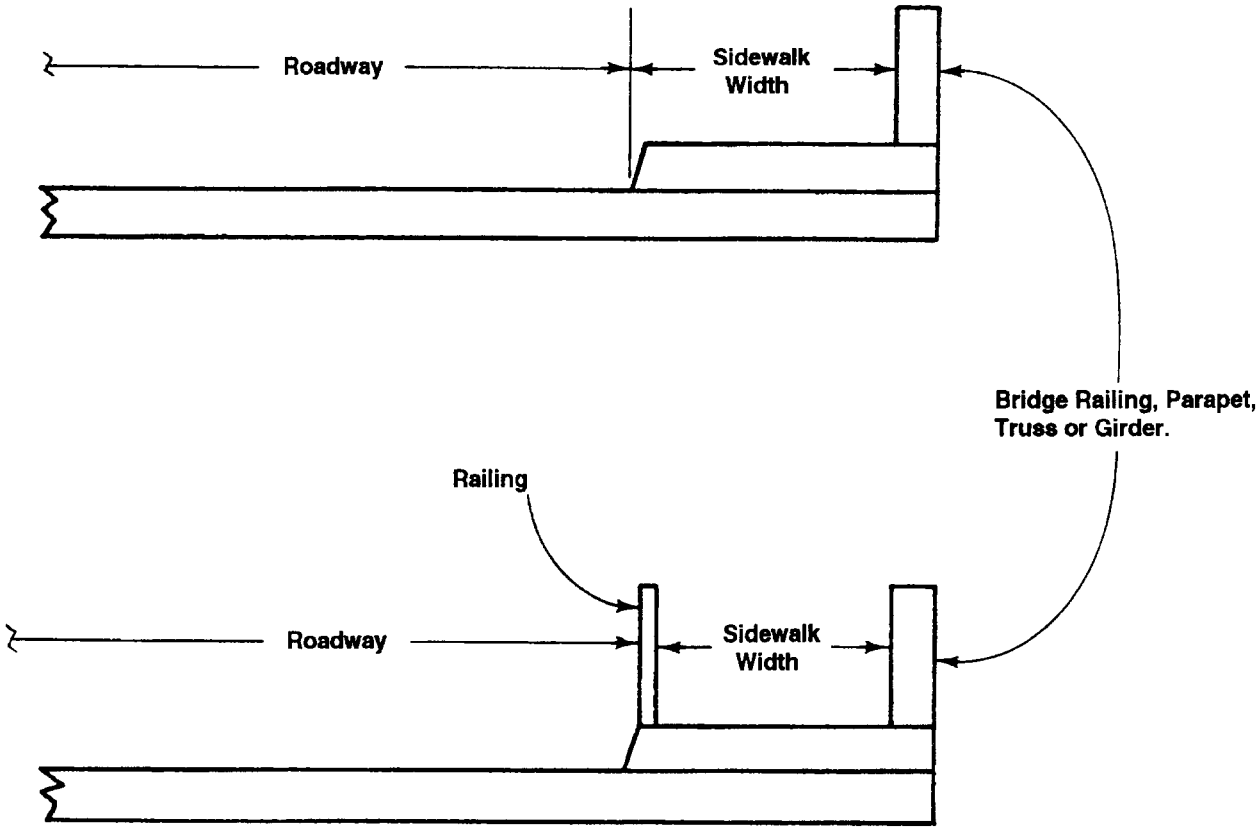
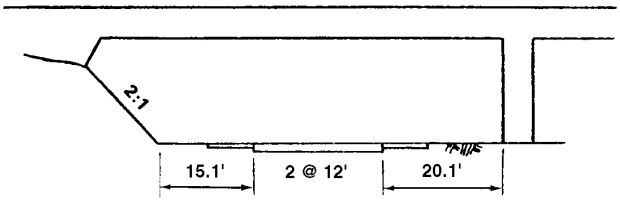
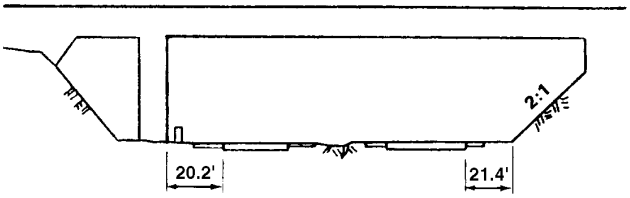


Figure 8.1

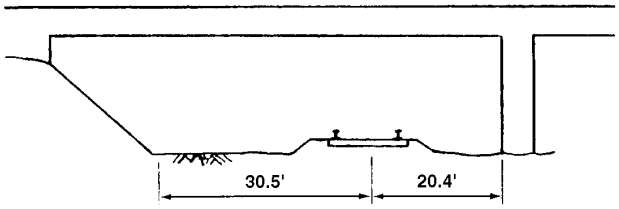
Minimum Lateral Underclearance



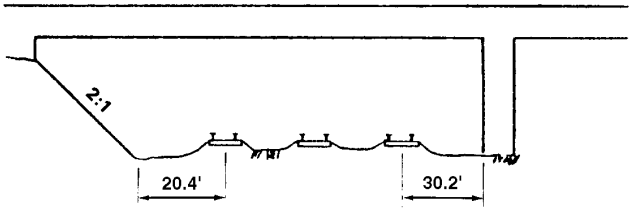
I55B = 15.1 I56 (Leave Blank) For 2-Way Traffic
I56 = 15.1 For 1-Way Traffic
I55BI = Leave Blank



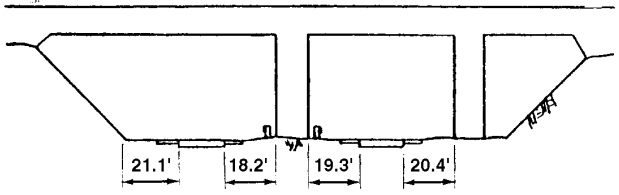
I55B = 20.2
I56 = 999
I55BI = Leave Blank



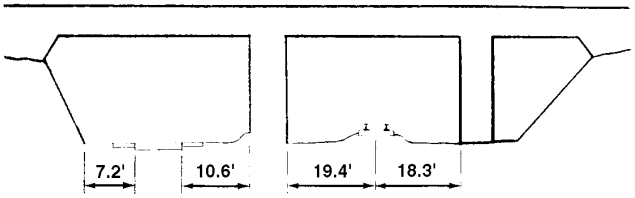
I55BI = 20.4



I55B & I56 = Leave Blank
I55BI = 20.4



I55B = 20.4
I56 = 18.2
I55BI = Leave Blank

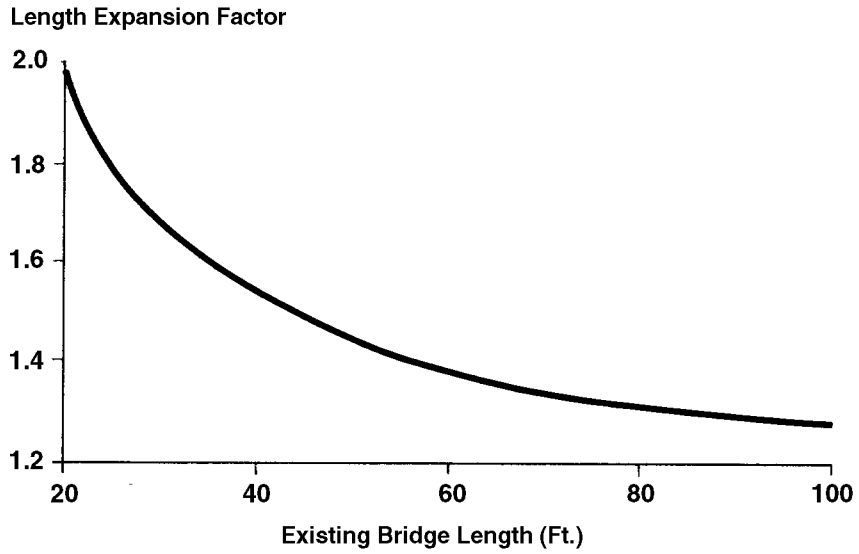


I55B = 07.2
I55BI = 18.3
I56 = Leave Blank

Figure 9.1

Increased Length of Replaced Bridges

Replaced Bridge Length = Existing Bridge Length x Length Expansion Factor



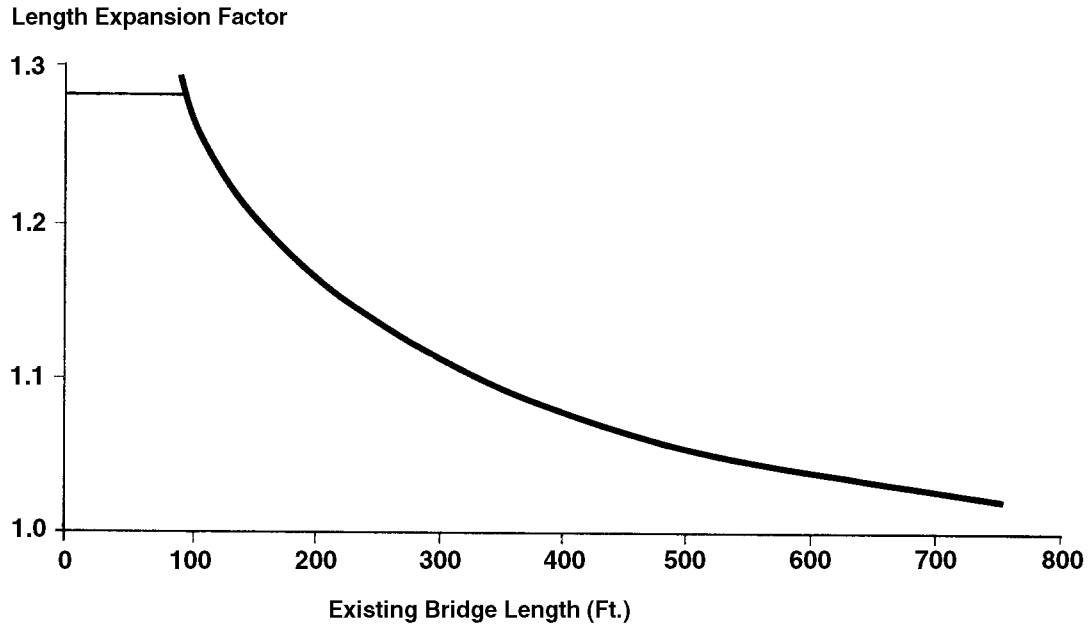


Figure 10.1